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ABSTRACT OF THE DISCLOSURE

5 An Ethernet switch and a method of switch for
selectively transporting or filtering network packets. Said
Ethernet switch comprises plural network ports, a first and
a second memory device, a first and a second memory control
device, an switch device, and a second memory management
device. Network ports are for receiving or delivering
network packets. The first memory device saves the source
address and associated messages of the network packets. The
10 second memory device saves the network packets received from
the network port. The first and the second memory control
devices connect to the first and the second memory devices,
respectively, for controlling the read and write of the
first and the second memory devices. Further, the switch
15 device connects the network port and the first memory
control device, for creating a source address and the
associated messages of the network port for each network
packet, and for creating a destination address and the
associated messages of the network port for each network
20 packet in accordance with the contents of the first memory
device for managing the contents of the first memory device.
The second memory device connects the network port and the
second memory control device for managing the contents of
the second memory device. The shared memory access control
25 circuit controls the access to the shared memory device.